

ABSTRACT OF THE DISCLOSURE

A data transmission apparatus is provided that enables accurate data regeneration using an A/D converter with a relatively narrow dynamic range for processing a signal having a large noise amplitude. To this end, the data transmission apparatus includes a receiving part having a multiplier that performs a spread spectrum process by multiplying an input signal by a PN sequence, an A/D converter that performs an analog-to-digital conversion process on the signal that has undergone the spread spectrum process, and a multiplier that performs an inverse spread spectrum process by multiplying the signal that has undergone the analog-to-digital conversion process by the same PN sequence.